We claim:

1	1.	A method for providing a three-dimensional image, comprising:

2	selecting a screen size or range of screen sizes for a three-dimensional image; and

3	scaling depth information associated with objects in a three-dimensional image to

4	preserve perceived depths of the objects when the three-dimensional image is presented at

5	the screen size or within the range of screen sizes selected.

1	2.	The method for providing a three-dimensional image of claim 1, wherein the

2	depth information is scaled down.

1	3.	The method for providing a three-dimensional image of claim 1, wherein the

2	depth information is scaled up.

1	4.	The method for providing a three-dimensional image of claim 1, wherein the

2	depth information is scaled using an interactive user interface configured to allow a user of

3	the interactive user interface to view a representation of the three-dimensional image during

4	the scaling of the depth information.

1	5.	The method for providing a three-dimensional image of claim 1, wherein the

2	depth information is at least partially automatically scaled depending upon the screen size or

3	the range of screen sizes selected.

1	6.	The method for providing a three-dimensional image of claim 1, further

2	comprising: .

3	scaling hidden surface reconstruction information associated with hidden surface

4	areas in the three-dimensional image to preserve reconstructions of the hidden surface areas

5	when the three-dimensional image is presented at the screen size or within the range of

6	screen sizes selected.

1   7.   The method for providing a three-dimensional image of claim 6, wherein the

2   hidden surface reconstruction information is scaled down.

1   8.   The method for providing a three-dimensional image of claim 6, wherein the

2   hidden surface reconstruction information is scaled up.

1   9.   The method for providing a three-dimensional image of claim 6, wherein the

2   hidden surface reconstruction information is scaled using an interactive user interface

3   configured to allow a user of the interactive user interface to view a representation of the

4   three-dimensional image during the scaling of the hidden surface reconstruction information.

1   10.   The method for providing a three-dimensional image of claim 6, wherein the

2   hidden surface reconstruction information is at least partially automatically scaled depending

3   upon the screen size or the range of screen sizes selected.

1   11.   A method for providing a three-dimensional image, comprising:

2   providing a machine-readable data file that includes scaling depth information

3   associated with objects in a three-dimensional image, the scaling depth information being

4   usable to preserve perceived depths of the objects within the three-dimensional image when

5   the three-dimensional image is presented at a particular screen size or within a particular

6   range of screen sizes.

1   12.   A method for providing a three-dimensional image, comprising:

2   providing a machine-readable data file that includes scaling hidden surface

3   reconstruction information associated with hidden surface areas in a three-dimensional

4   image, the scaling hidden surface reconstruction information being usable to preserve

5   reconstructions of the hidden surface areas when the three-dimensional image is presented at

6   a particular screen size or within a particular range of screen sizes.

1   13.   A method for providing a three-dimensional image, comprising:

2   scaling depth and/or hidden surface area reconstruction information associated with a

3   three-dimensional image to preserve perceived depths of objects or other image components

4   within the three-dimensional image when the three-dimensional image is presented at a

5   particular screen size, multiple screen sizes, or within a particular range of screen sizes.

1   14.   The method for providing a three-dimensional image of claim 13, wherein the

2   scaling is performed on an image used to create the three-dimensional image.

1   15.   The method for providing a three-dimensional image of claim 13, wherein the

2   scaling is performed at an interactive user interface configured to allow a user of the

3   interactive user interface to view the three-dimensional image during the scaling.

1   16.   The method for providing a three-dimensional image of claim 13, wherein the

2   scaling is performed on a lower resolution version of an image used to create the three-

3   dimensional image.

1   17.   The method for providing a three-dimensional image of claim 13, wherein the

2   scaling is performed at an interactive user interface configured to allow a user of the

3   interactive user interface to view a lower resolution version of the three-dimensional image

4   during the scaling.

1   18.   A method for providing a three-dimensional image, comprising:

2   scaling down higher resolution images to generate lower resolution images;

3   processing the lower resolution images to determine three-dimensional conversion

4   information; and

5   applying the three-dimensional conversion information to the higher resolution images

6   to create three-dimensional images.

1   19.   The method for providing a three-dimensional image of claim 18, wherein

2   scaling down includes reducing an image file size of the higher resolution images to generate

3   the lower resolution images.

1   20.   The method for providing a three-dimensional image of claim 18, wherein

2   scaling down includes reducing a number of pixels of the higher resolution images to generate

3   the lower resolution images.

1   21.   The method for providing a three-dimensional image of claim 18, wherein

2   scaling down includes reducing a color depth size of the higher resolution images to generate

3   the lower resolution images.

1   22.   The method for providing a three-dimensional image of claim 18, wherein the

2   three-dimensional conversion information includes depth perspective information.

1   23.   The method for providing a three-dimensional image of claim 18, wherein the

2   three-dimensional conversion information includes hidden surface reconstruction information.

1   24.   The method for providing a three-dimensional image of claim 18, wherein the

2   three-dimensional conversion information is scaled up before it is applied to the higher

3   resolution images.

1   25.   A method for providing a three-dimensional image, comprising:

2   receiving or accessing image data created by scaling depth and/or hidden surface area

3   reconstruction information associated with a three-dimensional image to preserve perceived

4   depths of objects or other image components within the three-dimensional image when the

5   three-dimensional image is presented at a particular screen size, multiple screen sizes, or

6   within a particular range of screen sizes; and

7   using the image data to reproduce a three-dimensional image.

26. The method for providing a three-dimensional image of claim 25, wherein using the image data to reproduce the three-dimensional image includes displaying the three-dimensional image.

27. The method for providing a three-dimensional image of claim 25, wherein using the image data to reproduce the three-dimensional image includes projecting the three-dimensional image.

28. A method for providing three-dimensional images, comprising:
receiving or accessing image data created by scaling depth and/or hidden surface area reconstruction information associated with three-dimensional images in order to preserve perceived depths of objects or other image components within the three-dimensional images when the three-dimensional images are presented at a particular screen size, multiple screen sizes, or within a particular range of screen sizes; and
projecting the three-dimensional images on movie screens.

29. The method for providing three-dimensional images of claim 28, wherein the three-dimensional images are projected using a film media.

30. The method for providing three-dimensional images of claim 28, wherein the three-dimensional images are digitally projected.

31. A method for providing three-dimensional images, comprising:
receiving or accessing image data created by scaling depth and/or hidden surface area reconstruction information associated with three-dimensional images in order to preserve perceived depths of objects or other image components within the three-dimensional images when the three-dimensional images are presented at a particular screen size, multiple screen sizes, or within a particular range of screen sizes; and
displaying the three-dimensional images in a home theatre environment.

1   32.   A method for providing three-dimensional images, comprising:

2   receiving or accessing image data created by scaling depth and/or hidden surface area

3   reconstruction information associated with three-dimensional images in order to preserve

4   perceived depths of objects or other image components within the three-dimensional images

5   when the three-dimensional images are presented at a particular screen size, multiple screen

6   sizes, or within a particular range of screen sizes; and

7   displaying the three-dimensional images on a video display.

1   33.   The method for providing three-dimensional images of claim 32, wherein the

2   video display is a television.

1   34.   The method for providing three-dimensional images of claim 32, wherein the

2   video display is a television-type display.

1   35.   The method for providing three-dimensional images of claim 32, wherein the

2   video display is a television-type home video display.

1   36.   The method for providing three-dimensional images of claim 32, wherein the

2   video display is a computer monitor.

1   37.   A method for providing a three-dimensional image, comprising:

2   receiving or accessing image data created by scaling depth and/or hidden surface area

3   reconstruction information associated with a three-dimensional image to preserve perceived

4   depths of objects or other image components within the three-dimensional image when the

5   three-dimensional image is presented at a particular screen size, multiple screen sizes, or

6   within a particular range of screen sizes; and

7   recording the image data on a data storage device.

1   38.   The method for providing a three-dimensional image of claim 37, wherein the

2   data storage device is a movie storage device suitable for use in movie theatres.

1   39.   The method for providing a three-dimensional image of claim 37, wherein the

2   data storage device is a server.

1   40.   The method for providing a three-dimensional image of claim 37, wherein the

2   data storage device is a hard drive.

1   41.   The method for providing a three-dimensional image of claim 37, wherein the

2   data storage device is a digital media disk.

1   42.   The method for providing a three-dimensional image of claim 37, wherein the

2   data storage device is a digital versatile disk.

1   43.   The method for providing a three-dimensional image of claim 37, wherein the

2   image data is recorded such that the data storage device can be used to reproduce the three-

3   dimensional image with a digital projector.

1   44.   The method for providing a three-dimensional image of claim 37, wherein the

2   image data is recorded such that the data storage device can be used to reproduce the three-

3   dimensional image on a video display.

1   45.   The method for providing a three-dimensional image of claim 37, wherein the

2   image data is recorded such that the data storage device can be used to reproduce the three-

3   dimensional image on a television.

1   46.   The method for providing a three-dimensional image of claim 37, wherein the

2   image data is recorded such that the data storage device can be used to reproduce the three-

3   dimensional image on a television-type display.

1   47.   The method for providing a three-dimensional image of claim 37, wherein the

2   image data is recorded such that the data storage device can be used to reproduce the three-

3   dimensional image on a television-type home video display.

1   48.   The method for providing a three-dimensional image of claim 37, wherein the

2   image data is recorded such that the data storage device can be used to reproduce the three-

3   dimensional image on a computer monitor.

1   49.   A method for providing a three-dimensional image, comprising:

2   receiving or accessing image data created by scaling depth and/or hidden surface area

3   reconstruction information associated with a three-dimensional image to preserve perceived

4   depths of objects or other image components within the three-dimensional image when the

5   three-dimensional image is presented at a particular screen size, multiple screen sizes, or

6   within a particular range of screen sizes; and

7   using an electromagnetic transmission medium to transmit the image data.

1   50.   The method for providing a three-dimensional image of claim 49, wherein the

2   electromagnetic transmission medium includes radio waves.

1   51.   A method for providing a three-dimensional image, comprising:

2   receiving or accessing image data created by scaling depth and/or hidden surface area

3   reconstruction information associated with a three-dimensional image to preserve perceived

4   depths of objects or other image components within the three-dimensional image when the

5   three-dimensional image is presented at a particular screen size, multiple screen sizes, or

6   within a particular range of screen sizes; and

7   using a communications network to transmit the image data.

1   52.   The method for providing a three-dimensional image of claim 51, wherein the

2   communications network includes the Internet.